

Thinking Science - Collecting Data

Wordnet defines data as “a collection of facts from which conclusions may be drawn”. <http://wordnet.princeton.edu/perl/webwn>

Begin to hone your science skills by identifying the data a scientist might collect when studying energy conservation and alternative energy sources. What tool(s) are used to collect the data? Write the unit of measurement that applies to each kind of data.

Data to collect

Measurement tool(s) / Unit of measurement

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Quantitative data is obtained by measuring and is reported using numbers. Review the data you have listed.

Place a checkmark next to the quantitative data.

Examples: The sky is blue is qualitative data. The temperature outside is 34°C is quantitative data.

Science Anchors - Identify appropriate instruments for a specific task and describe the information the instrument can provide.

Alternative Energy and Conservation Project - <http://homepage.mac.com/cohora/pbl/energy/index.htm>